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(71) Applicant : SONY CORP
(72) Inventor : ABE TAKAO
KOIKE HIDEYUKI
YAMASAKI KENJI
KAWAHARA MINORU

(54) ERROR CORRECTION DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To eliminate useless power consumption in an error correction device for decoding data error correction encoded by a product code.

SOLUTION: The data supplied to an error correction decoder 9 constituted as one integrated circuit are supplied to an internal code decoder 23 and error corrected and the data are written to a RAM 30 through a controller 29. In the case that all errors are corrected in the decoder 23, since error correction by an external code decoder 31 is not required, the data are read from the RAM 30 and outputted to the outside. At the time, by the stoppage of clock supply or the like for instance, the operation of the decoder 31 is stopped. Since the decoders 23 and 31 are constituted as the same integrated circuit, the need of an interface between them is eliminated, and in the case that the error correction by an external code is not required, the operation of the decoder 31 is stopped. Thus, the useless power consumption is suppressed.

